



## INTRODUCTION

EnSight provides an interactive query capability that displays variable data in the Graphics Window as you move the mouse pointer over geometry. The probe can display the value directly under the mouse pointer (by interpolating the nodal values of the applicable element) or search for and display the value at the node closest to the mouse pointer.

## BASIC OPERATION

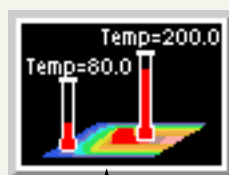
To probe interactively:

1. Select the desired variable to display from the Main Variables list.

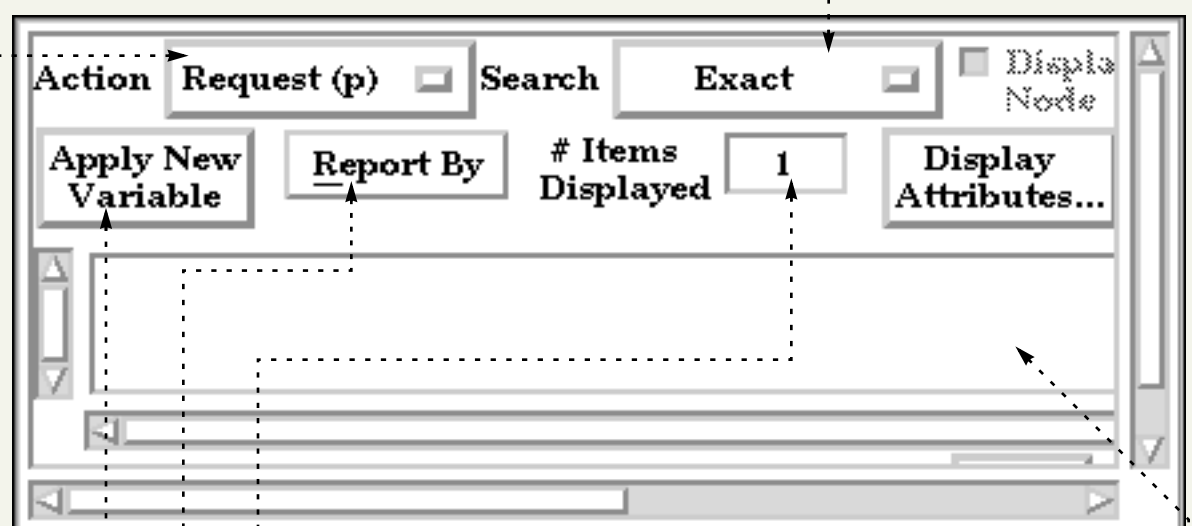
2. Click the Probe Icon (or select Query > Interactive Probe...).

3. Set the Action pulldown to either Request(p) or Continuous.

Request(p) mode will display a new probe marker whenever the 'p' key is pressed. Continuous mode will continuously update the marker as long as the mouse pointer is over some geometry.



4. Set the Search pulldown to either Exact or Closest Node.



5. Enter a value controlling the number of simultaneous probe markers displayed. Once this number has been reached, the oldest marker is replaced by each new marker.

6. Move the mouse into the Main Graphics window and position the pointer over the desired location. If the Action is set to Request(p), press the 'p' key to display probe markers. Note that probe results are printed to the list.

7. If the selected variable is a vector variable, you can specify which component (or the magnitude) of the variable is displayed.

8. You can change the query variable at any time by selecting a new variable in the Main Variables list and clicking Apply New Variable.

9. When done, change the Action to None to disable interactive probing.



## Probe Display Attributes

Probes are displayed as a marker (sphere) and the query text label. The appearance of the marker and label can be changed:

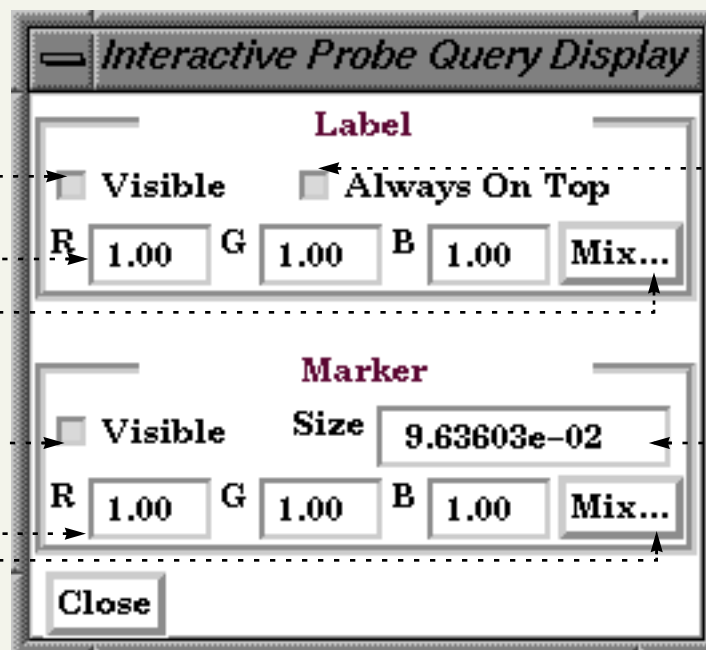
1. Click the Display Attributes... button in the Probe Quick Interaction area.

Toggle visibility for the query text label.

Set the color of the label.

Toggle visibility for the probe marker.

Set the color of the marker.



Toggle whether query text labels are “always on top” (never hidden by geometry) or occluded by geometry that is closer.

Set the radius of all probe markers.

## OTHER NOTES

Note that interactive query actions *do not* generate corresponding command language!

When in query mode with the Action set to Request, other picking options that use the ‘p’ key are disabled (such as the picks in Part Mode: Part, Cursor, Line, Plane, and LookAt Point).

## SEE ALSO

[How To Query Over Distance](#), [How To Query Over Time](#).

User Manual: [Interactive Probe Query](#)